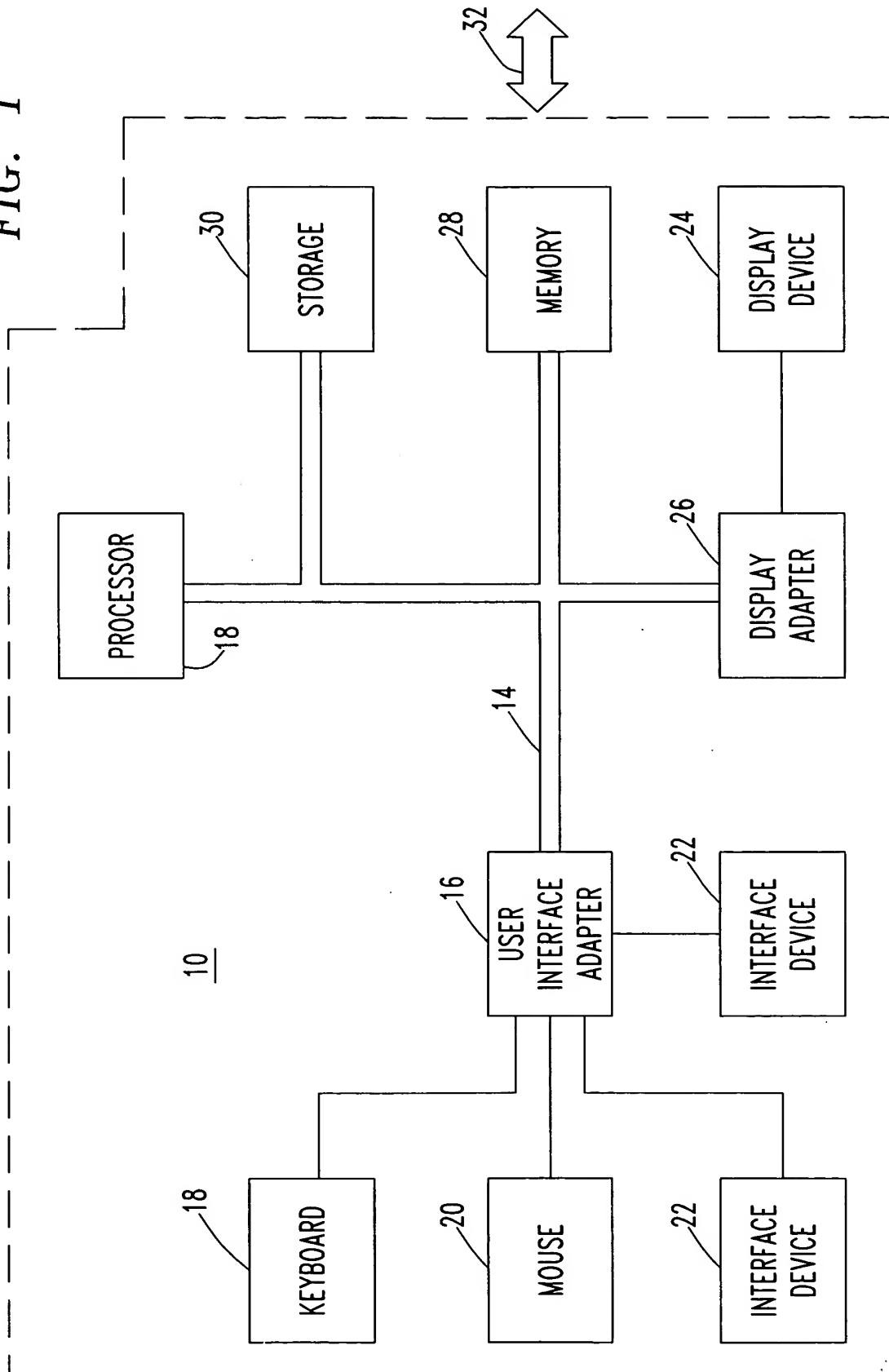




FIG. 1



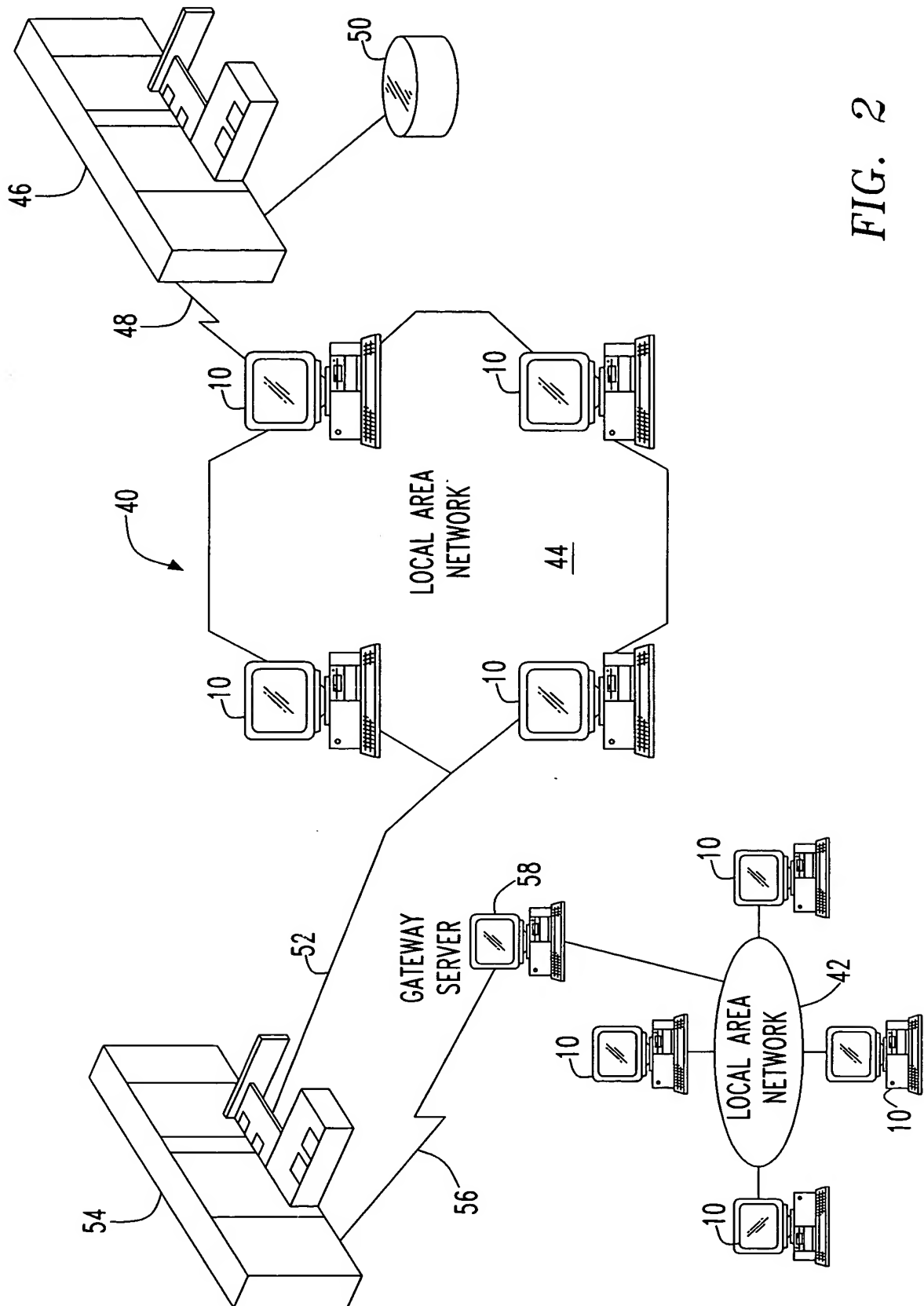


FIG. 2

METHOD OF CONVERTING A DELIMITED FLAT
FILE TO A MARKUP LANGUAGE SPECIFIED BY
A DOCUMENT TYPE DEFINITION FILE

FIG. 3

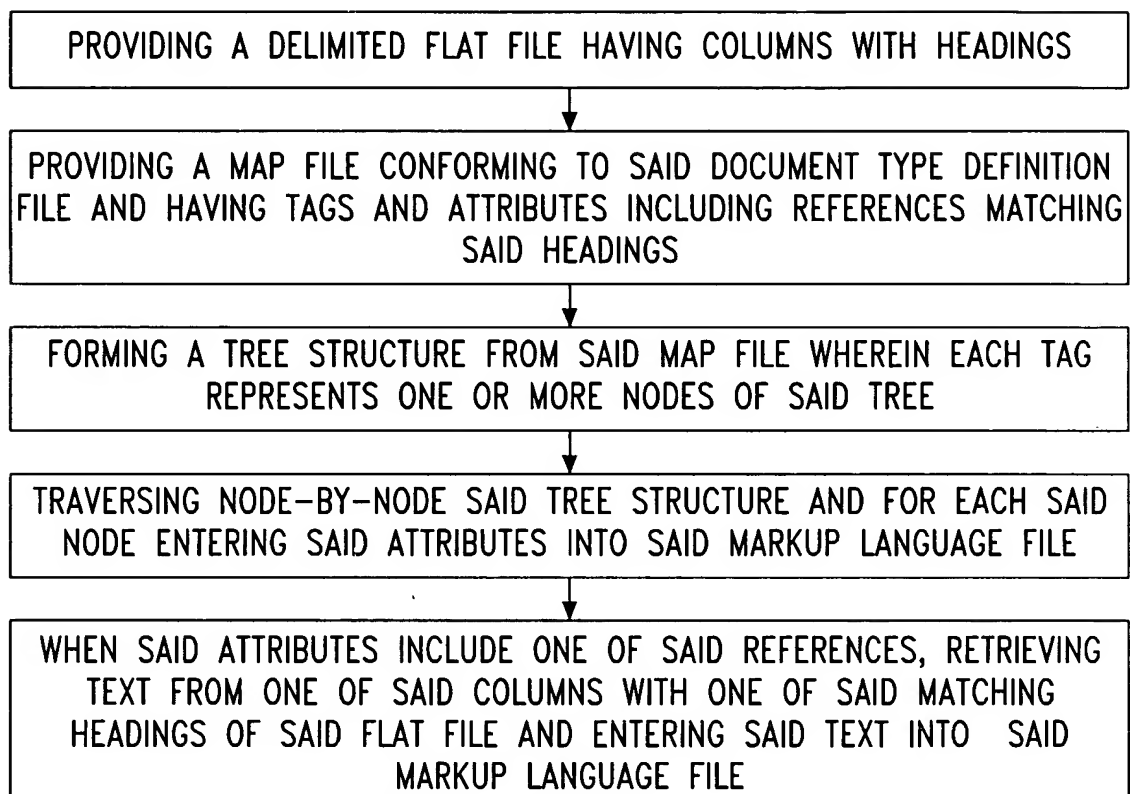


FIG. 4

```

<!ELEMENT map (doctype?,stylesheet?,element_node+)>
<!ELEMENT stylesheet (#PCDATA)>
<!ELEMENT doctype (#PCDATA)>
<!ELEMENT element_node (attribute_node*,(text_node|element_node)*)>
<!ATTLIST element_node  name      CDATA          #REQUIRED
                        occurence (zero_or_more|one_or_more|optional|one)
                        "one"
                        isEntireRow (yes|no)      "no">
<!ELEMENT text_node (#PCDATA)>
<!ATTLIST text_node    column    CDATA          #REQUIRED>
<!ELEMENT attribute_node (text_node)>
<!ATTLIST attribute_node name      CDATA          #REQUIRED>
  
```